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critically reviewed. The author then enunciates the principles of a classification based on the history of the class and the ontogeny of the individual. The ordinal grouping proposed by Beecher in 1891 is the only one for the Brachiopods which is founded upon these principles, and is therefore adopted. Schuchert has greatly elaborated and developed the classification along these lines until it is now very complete and satisfactory.

The orders are based mainly upon the nature of the pedicle opening; superfamilies upon the persistent internal characters of the shell; and families within the superfamilies upon a combination of common external and internal generic characters. The generic limitations and the disposal of species are largely in accordance with the work of Hall and Clarke.

The final chapter containing the index and bibliography necessarily constitutes the bulk of the work. The arrangement is alphabetical and will greatly facilitate references to any species or genus. The plan of treatment is as follows: The generic name and author are first given, and also the genotype, or type species of the genus, together with references to all the literature. Then follow the species under the genus, each with its geological distribution, references and synonymy, geographical position, and in many cases, observations on the synonymy, structure, and affinities.—C. E. B.

BOTANY.

Bailey's Principles of Fruit Growing.¹—This volume of the Rural Science Series, which is issuing under the editorial management of Professor Bailey, contains only eight chapters, but goes into an unusual amount of detail in the discussion of all phases of fruit-growing, from the primary location of the fruit farm to the handling and marketing of its produce. Few problems are as complicated as those underlying the art of horticulture, and the author has done well in analyzing them quite fully, for there is little doubt that intelligent observation in any locality can supply better data for local practice than can be laid down empirically in the best book. Though a rather curiously classified inventory of fruits occupies the early pages, the discussion of practical details is chiefly limited to the varieties growing in the temperate part of the United States.—T.

¹ The principles of fruit-growing. By L. H. Bailey, New York. The Macmillan Company, 1897, pp. xi+508. \$1.25.